## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Jones et al.

Assignee:

Genencor International, Inc.

Filing Date:

November 09, 1999

Examiner:

Patterson, C.

Serial No.:

09/436,513

Group Art Unit: 1652

Title:

Chemically Modified Mutant Serine

Hydrolases Show Improved Catalytic Activity

And Chiral Selectivity

**Assistant Commissioner for Patents** Washington, D.C. 20231

## AMENDMENT & RESPONSE (37 C.F.R. § 1.111)

Dear Sir:

Responsive to the Office Action mailed January 25, 2001 ("Office Action"), the period for response having been extended as a result of the enclosed Petition for Extension of Time and requisite fee, Applicants respectfully request reconsideration of the above-identified application in view of the following amendments and remarks.

Applicants submit herewith a copy of a SUBSTITUTE SPECIFICATION. Please enter the attached substitute specification pursuant to 37 C.F.R. § 1.125. A marked-up version of the original specification is enclosed.

## IN THE CLAIMS

Please AMEND claims 1, 10, 11, 13, 51, 56, 57, and 59. Please CANCEL claims 12, 14 - 20, 58, and 60 as follows. Applicants acknowledge the withdrawal of claims 21 - 50. Following entry of this amendment, claims 1, 2 - 11, 13, 51 - 57, 59, 61, and 62 will be pending and at issue. A clean copy of the pending claim set is appended to the end of this response as Appendix I for the Examiner's convenience.

1. (Amended) A modified serine hydrolase, said hydrolase comprising an amino acid residue in a subsite replaced with a cysteine, wherein the cysteine is modified by replacing the thiol hydrogen in the cysteine with a substituent group providing a thiol side chain comprising a chiral substituent.

21334175.2/23623-7043